

(19) World Intellectual Property Organization  
International Bureau



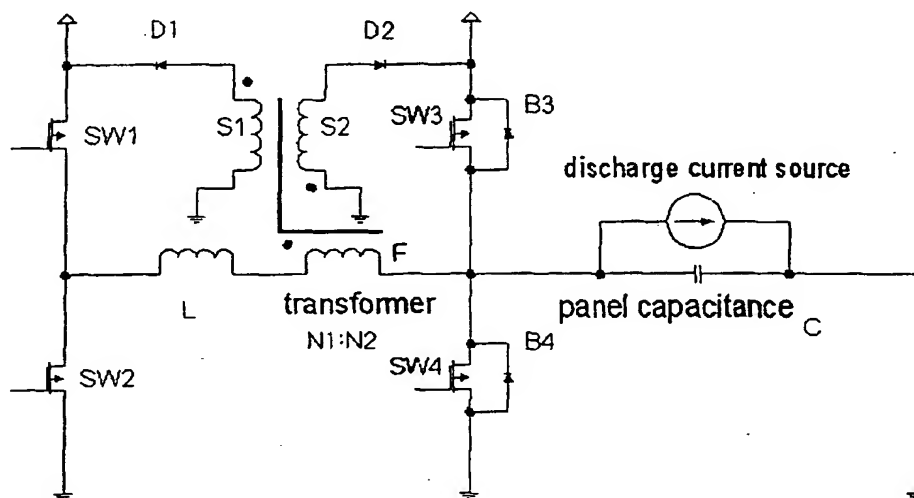
(43) International Publication Date  
17 July 2003 (17.07.2003)

PCT

(10) International Publication Number  
WO 03/058592 A1

- (51) International Patent Classification<sup>7</sup>: G09G 3/288 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: PCT/KR03/00040
- (22) International Filing Date: 10 January 2003 (10.01.2003)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:  
10-2002-0001593 11 January 2002 (11.01.2002) KR
- (71) Applicant and  
(72) Inventor: CHO, Bo-Hyung [KR/KR]; 1-305 Samick Apt, 300-301 Ichon-dong, Yongsan-gu, Seoul 140-725 (KR).
- (72) Inventor; and  
(75) Inventor/Applicant (*for US only*): LEE, Dong-Young [KR/KR]; 127-62 Shllim2-dong, Gwanak-gu, Seoul 151-856 (KR).
- (74) Agents: PARK, Keon-Woo et al.; 1716-4 Seocho3-dong, Seocho-gu, Seoul 137-885 (KR).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: DRIVING CIRCUIT FOR ENERGY RECOVERY IN PLASMA DISPLAY PANEL



(57) **Abstract:** An energy recovery driving circuit of the present invention has a resonant inductor, a primary coil and at least one secondary coil of a transformer, and an energy recovery unit. The resonant inductor is connected to the load for allowing a charge and/or discharge current to be applied to the load to flow through the resonant inductor. The primary coil is connected to the resonant inductor, and is connected to both the resonant inductor and the load so as to allow the charge and/or discharge current to flow through the primary coil when the charging and/or discharge current flows through the load. The secondary coil is coupled to the primary coil. The energy recovery unit generates a current according to the predetermined number of turns of the secondary coil to allow the current flowing through the secondary coil to be recovered to a supply voltage source.

WO 03/058592 A1